

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3

PISA REV; V.D.

✓ 3301. Methods of spectrographic analysis of  
solutions. V. D. Pisarev. Zavod. Lab., 1958, 29  
(4), 402-468. A review with 51 references.

G. S. SMITH

1

2  
g

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3"

PISAREV, D. I.

"Experience of Work in the Area of Aviation Neurology and Question of Prophylaxis  
(Opyt Raboty v Oblasty Aviatsionnoy Nervologii i Voprosy Profilaktiki). DOSAAF  
Press, Moscow, 1955.

5

*ca*

Sodium bicarbonate in developers. G. Dusserre, No. 1030, No. 9, 2d. Allem. Patent, Aug. 1940. No. 125-179 proposes to use the equiv. of NaHCO<sub>3</sub> heated to form Na<sub>2</sub>CO<sub>3</sub>, instead of crystal salts for preparing developer and describes the method of their application. W. R. Head.

C A

Casein drier operated by flue gases. E. P. Dwyer,  
Mitsubishi, Patent No. 7, 423, 1950. A casein  
drier heated by furnace flue gases, and constructed on the  
tray battery principle is described with diagrams.  
G. M. Kondapalli

PISAREV, A., inzh.; MINCHEV, M., inzh.

Computing the vibrations of a contact system of low-voltage  
circuit breakers. Mashinostroenie 11 no.10:11-26 0 '62.

PISAREV, A.

"Insulation distances in electric installations with low voltage."  
p.33 (Tezhka Promishlenost, Vol. 7, no. 3, Mar. 1968, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, August 1968

PITSAREV, A.

Dizel'nye poezda. [Diesel trains. (Zheleznodorozhnyy transport, 1946, no. 5-6, p. 73-75).

DLC: M82.25

SO SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress  
Reference Department, Washington, 1952. Unclassified.

PISAREV, A. A.

Cand Med Sci - (diss) "Comparative pharmacodynamics of preparations from fruits and flowers of the dzhungarskiy, myagkovatyy, and Maximovich hawthorn varieties." Karaganda, 1961. 19 pp; (Ministry of Public Health Kazakh SSR, Karaganda State Medical Inst); 300 copies; price not given; (KL, 5-61 sup, 205)

PISAREV, A.A.

Experimental (pituitrin) hypertension in dogs and its treatment with  
a 10% tincture of hawthorn blossoms. Zdrav. Kazak. 21 no. 3:56-1  
'61. (MIR 14:4)

1. Iz kafsovy farmakologii (zav. - prof. I.I. Sivertsev [deceased])  
kazakhskogo meditsinskogo instituta.  
(HYPERTENSION) (HAWTHORN—THERAPEUTIC USE)

RUSOV, K.D.; PISAREV, A.A.

Automatic control of the hardening of thin-walled cylinder  
liners. Avt. prom. 28 no.7:41-43 Jl '62. (MIRA 16:6)

1. Yaroslavskiy motornyy zavod.  
(Cast iron—Hardening)  
(Automatic control)

NIKANOROV, V.I.; PETER, G.; PISAREV, A.F.; POZE, Kh.

[Measurement of the spin correlation coefficient  $C_{kp}$  for proton-proton scattering at an energy of 660 Mev] Izmerenie koeffitsienta spinovoi korreliatsii  $C_{kp}$  dlja (p-p) - ras-seianija pri energii 660 Mev. Dubna, Ob"edinennyi in-t iader-nykh issl., 1961. 8 p. (MIRA 15:1)  
(Nuclear spin) (Protons--Scattering)

21600  
S71-C7517000Z/00K/CJF/704  
EO32/E14

AUTHORS Govorov, A. M., Nakane, V. I., Petrenko, G.,  
Ptitsyn, A. F., and Prozor, K. B.

TITLE A gas discharge chamber

PERIODICAL Prilozh. k tekhnike eksperimenta, no. 6, 1961, p. 17

TEXT A brief version of this article was communicated to the International Conference on High-energy Nuclear Instruments at Berkeley in September 1960.

The present chamber is similar to those described by S. Fukui and S. Miyamoto (Ref. 1, Nuovo Cimento, 31, 1959, 113) and S. Fukui, S. Miyamoto (Ref. 2, Physical Institute Nagoya University, Japan, Preprint, 1959). It differs from ordinary spark chambers in that the electrodes are separated from the working volume by a dielectric. The authors have investigated chambers with plane electrodes ( $25 \times 10 \text{ cm}^2$ ) at a distance of 7 mm. The chambers were filled with neon to a pressure of 750 mm Hg with an added argon impurity (0.3 or 4.5%). In addition to the properties investigated in Refs. 1 and 2, the present authors have studied

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A gas discharge chamber

381-  
S/120751/000/006/004/041  
E032/E114

the dependence of the amplitude of the high voltage pulse applied to the chamber on its length (for visible tracks) and magnitude of the clearing field. It was found that when the argon impurity is 0.4-0.45% and the electric field is 5.4 kV/m the maximum angle at which the discharge will always occur along the track of the particles is 30°. At larger angles both normal and distorted tracks are observed. Examination of photographs of tracks at 30° showed that there was a systematic displacement towards the positive electrode by about 1 mm relative to the direction of motion of the particle. Acknowledgments are expressed to A A Tyapkin and V I Salatsev for discussions. There are 4 figures and 2 non Soviet bloc references. The English language reference (Ref. 2) is as quoted in text above.

ASSOCIATION: Ob yedinennyy institut yadernykh issledovaniy  
(Joint Institute for Nuclear Research)

SUBMITTED: April 10 1961

Card 2/1

X

FILAREV, A.F.

MIRASOV, V. I., PETER, G., PISAREV, A. F., POSE, H.

"Measurement of the Spin Correlation Coefficient  $C_{\text{sp}}$  for pp-scattering  
at 600 Mev $\nu$ "

report presented at the Intl. Conference on High Energy Physics, Geneva,  
4-11 July 1962

Joint Institute for Nuclear Research  
Laboratory of Nuclear Problems

S/356/62/042/005/C10/050  
B104/B102

AUTHORS: Nikanorov, V. I., Peter, G., Pisarev, A. F., Poze, Kh.

TITLE: Measurement of the spin correlation coefficient for pp-scattering at 660 Mev

PHYSICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 5, 1962, 1209-1211

TEXT: The spin correlation coefficient  $c_{kp}$  was measured for elastic proton-proton scattering at an angle of  $90^\circ$ , the 660-Mev protons being scattered on a polyethylene target (Fig. 1). The scattered protons and the recoil protons were recorded by coincidences in the telescopes  $T_1$  and  $T_2$ . The solid angle of the two telescopes was  $0.7 \cdot 10^{-3}$  steradion. The amplitude of elastic pp-scattering can be represented in the form

$$W = 1 + \beta(\sigma_1 n) (\sigma_2 n) + \gamma(\sigma_1 + \sigma_2) n + \delta(\sigma_1 K) (\sigma_2 K) + \epsilon(\sigma_1 P) (\sigma_2 P) \quad (1).$$

$c_{kp}$  and the scattering amplitude coefficients are related by

Card 1/8

Measurement of the spin correlation ...

3/056/62/042/003/C10/050  
B104/B102

$I_0(\vec{v}, \vec{s}) - iI_0(\vec{v}, \vec{d}\vec{e}^*)$ , where  $d = e - s$ ,  $e = 2\gamma$ , and  $I_0(\vec{v})$  is the differential cross section of elastic pp-scattering (cf. Gehme, Phys. Rev. 106, 147, 1957). The proton spin states after scattering were determined with the aid of two identical carbon targets. The telescope  $T_3$  and  $T_4$  were in anticoincidence with the telescopes  $T_1$  and  $T_2$ . The direction of motion of the protons before and after scattering from carbon targets was determined with gas discharge chambers. Results. The correlation asymmetry factor is  $C_{kp}(90^\circ) = 0.22 \pm 0.18$ . This work is part of an experimental program for determining the scattering amplitudes and for conducting a phase shift analysis. There are 2 figures.

ASSOCIATION: Obn'yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: December 29, 1961

Card 1/8

KAZARINOV, Yu.M., LEONT'EV, F., PETEROV, G.; VASIL'EV, A.V., FEDOROV, N.M.

Measurement of the spin correlation coefficients in elastic pp-scattering at 3.5 Mev. ZHUR. FIZ. 34, No. 2, p. 332, 1961.

M. R. D. (S)

\* Byelinennyj Institut jadernoj fiziki, Moscow

L 45794-66 ENT(1)

ACC NR: AP6030148

SOURCE CODE: UR/0120/66/000/004/0157/0160

AUTHOR: Gromova, I. I., Peter, O., Pisarev, A. F.

43

ORG: Joint Nuclear Research Institute, Dubna (Ob'yedinennyj institut jadernykh issledovaniy)

42

B

TITLE: Testing the models of gas-discharge image converters

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 157-160

TOPIC TAGS: image converter, gas discharge

ABSTRACT: A principle of operation of a new gas-discharge image-converter tube was suggested by the authors in PTE, 1963, no. 4, 128. The present article reports the results of some studies of the sensitivity and operability of the photocathode in the presence of gas, of the passage of electrons through the metal screen, and of the definition of reproduced image. Plots of photocurrent vs. voltage for various neon pressures and of photocurrent vs. neon pressure show that the tube has acceptable sensitivity only at gas pressures under  $1.3 \text{ kn/m}^2$ . Satisfactory grid through factor was obtained with a large-mesh grid in a tube filled with neon at  $0.7 \text{ kn/m}^2$  or lower pressure. Further experiments revealed that a single-stage tube cannot handle the spark-type image because of undesirable optical feedback. Models of two-stage tubes produced a visual slit image, whose intensity, however, was not

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UDC: 621.383.001.4:621.383.6

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L 45794-66  
ACC NR: AP6030148

sufficient for photographing. Hints for improving the tube performance are given.  
"In conclusion, the authors wish to thank A. G. Nikolavey for his help in building  
the tube models." Orig. art. has: 5 figures.

SUB CODE: 09 / SUBM DATE: 20Jul65 / ORIG REF: 004 / OTH REF: 001/ ATD PRESS: 5085  
[03]

Card 2/2

Pb

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3"

ACC NR: AP7012412

SOURCE CODE: UR/0367/67/005/001/0140/0145

AUTHOR: Kazarinov, Yu. M.; Legar, F. -- Lehar, F.; Pisarev, A. P.; Yanout, Z. -- Janout, Z.

ORG: Joint Institute for Nuclear Research (Ob'yedinennyj Institut jadernykh issledovanij)

TITLE: Measurement of the triple scattering parameter  $R_{pn}$  at  $70^\circ$  QFS and the phase shift analysis at 630 MeV

SOURCE: Yadernaya fizika, v. 5, no. 1, 1967, 140-143

TOPIC TAGS: phase shift analysis, elastic scattering

SUB CODE: 20

ABSTRACT: The parameter  $R_{pn}$  and the polarization in elastic 605 MeV pn-scattering were measured at  $70^\circ$  with the result  $R_{pn} = 0.09 \pm 0.19$  and  $P_{pn} = -0.05 \pm 0.18$ . These data were used to perform a phase shift analysis at 630 MeV, to calculate the experimentally measured quantities, and to plan further experiments, determining the parameters  $D_{pn}$ ,  $R_{pn}$ ,  $C_{nn}^{pn}$  and  $\Lambda_{gg}^{pn}$ . The planning showed that within the given experimental possibilities a measurement of the parameters  $D_{pn}$  and  $\Lambda_{pn}$  will be the most efficient way to discriminate between the two remaining sets of phase shifts.

Line 1/2

0932 1344

ACC NR: AP7012412

The authors thank S. I. Bilen'ka, P. Vinternitets, L. I. Lapidus, and Yu. N. Simonov for useful discussions, and Ye. Dudova, V. A. Maksimova, V. M. Sakovskiy, S. I. Smirnova, T. D. Timofeyeva, and Ya. Fingerova for help in the work. Orig. art. has: 1 figure, 2 formulas and 5 tables. Based on authors' Eng. abstr.  
[JPRS: 40,393]

2/2

LEGAR, F.; NIKANOROV, V.I.; PETER, G.; PISAREV, A.F.

Chamber with fine electrodes, and studying the position of the spark  
rectification point. Prib. i tekhn. eksp. 10 no.1:59-64 Ja-F '65.  
(MIRA 18:7)

1. Ob"yedinennyj institut Yadernykh issledovaniy.

GROMOVA, I.I.; NIKANOROV, V.I.; PETER, G. & PISAREV, A.F.

Characteristics of discharge chambers filled with neon containing various  
impurities. Prib. i tekhn. eksp. 10 no.1:64-68 Ja-F '65. (MIRA 18:7)

1. Ob'yedinennyj institut yadernykh issledovaniy.

L 47079-65 EHT(m) IJP(=)

ACCESSION NR: AP5007025

S/0129/65/000/001/0059/0064

AUTHOR: Legar, F.; Nikanorov, V. I.; Peter, G.; Pisarev, A. F.

TITLE: Thin-electrode chamber and studying the position of the spark-  
"rectification" point

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 59-64

TOPIC TAGS: spark discharge chamber, spark chamber

ABSTRACT: The position of the point, on an inclined particle track, from where the spark arises (the "rectification" or straightening point) was studied, with 25- and 280-Mev protons, in spark discharge chambers with 7-micron Al foil. Both sides of this thin foil were active. The chambers were filled with 99.6% Ne and 0.4% Ar at 760 torr. The effect of the particle energy and their track angle in the chamber upon the distance between the negative electrode and the "rectification" point was investigated. It was found that the Townsend factor  $\alpha$  increases with

Cord 1/2

L 47079-65

ACCESSION NR: AP5007025

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an increase in the initial ionization density of gas due to an interaction of charges of individual avalanches. "The authors wish to thank A. A. Tyapkin, Yu. M. Kazarinov, K. M. Fal'brukh, and M. Mali for their useful discussions and help in carrying out the work." Orig. art. has: 5 figures, 6 formulas, and 1 table.

ASSOCIATION: Ob'yedinennyj institut yadernykh issledovanij (Joint Nuclear Research Institute)

SUBMITTED: 30Dec63

ENCL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 004

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Card 2/2

7020-65 EWT(m) LIP(c)  
ACCESSION NR: AP5007026

5/0120/65/000/001/0064/0068

14

12

B

AUTHOR: Gromova, I. I.; Nikanorov, V. I.; Peter, G.; Pisarev, A. F.

TITLE: Investigation of the characteristics of discharge chambers filled with  
neon with various additions

19

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 64-68

TOPIC TAGS: discharge chamber, spark discharge chamber

ABSTRACT: Six 25x10x7-cm glass chambers with thin semitransparent stannic-oxide electrodes were tested. They were filled at 760 torr with neon with admixtures of A, H<sub>2</sub>O, C<sub>2</sub>H<sub>5</sub>OH, CH<sub>4</sub>, and CCl<sub>4</sub>. For the first experiment, all six chambers were filled with a standard mixture of 99.6% Ne and 0.4% A; their memory time was 16  $\mu$ sec. One of the chambers was left intact for 2 yrs, whereupon it was tested again: its memory time decreased to 5  $\mu$  sec, while its maximum angle of slope of discharge and the quality of tracks remained

Cord 1/2

L 47080-65

ACCESSION NR: AP5007026

2.

unchanged. Another chamber was used for studying the diffusion of initial electrons from the particle track. The remaining four chambers were used for investigating the effects of the above additions to the standard mixture. It was found that the introduction of 0.1% CH<sub>4</sub> results in a memory-time reduction from 16 to 1  $\mu$ sec; an addition of  $3 \times 10^{-6}$  % CCl<sub>4</sub>, from 16 to 1.6  $\mu$ sec. The addition of H<sub>2</sub>O and C<sub>2</sub>H<sub>5</sub>OH does not improve the time characteristics. "The authors wish to thank A. A. Tyapkin for his useful advice and discussions about the development of discharge along the particle track." Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Ob"yedinennyj institut yadernyh issledovaniy (Joint Nuclear Research Institute)

SUBMITTED: 30Dec63

ENCL: 00

SUB CODE: NP

NO REF Sov: 003

OTHER: 003

bjo  
Card 2/2

L 10763-65 EWT(m) DIAAF/AEDC(n)/SSD/ESD(t)/AFWL

ACCESSION NR: AP4046397

S/0056/64/047/003/0848/0854

AUTHORS: Kazarinov, Yu. M., Legar, F., Peter, G., Pisarev, A. P.  
Fal'brukh, K. M.TITLE: Measurement of spin correlation coefficients in elastic pp scattering at 315 MeV energySOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 848-854TOPIC TAGS: spark discharge chamber, spin correlation, correlation coefficient, elastic scattering, proton proton scattering, phase shift analysisABSTRACT: The spin correlation coefficients in elastic pp scattering were measured at an energy of 315 MeV and at an angle of 45° in the c.m.s.. using a spark-chamber whose construction and characteristics were described earlier (Legar, Nikonorov, Peter, and Pisarev,

Card 1/3

L 10763-65  
ACCESSION NR: AP4046397

13

Preprint, OIYaI, R-1449, 1964). The proton scattering and analyzing setup is described. The values obtained for the spin correlation coefficients are  $C_{mn} = +0.90 \pm 0.51$  and  $C_{kp} = 0.74 \pm 0.51$ . Using these spin-correlation values, a phase shift analysis of pp scattering at 310 MeV was made, in which both sets of pp scattering phase shifts obtained at 310 MeV (Yu. M. Kazarinov, I. N. Silin, ZhETF v. 43, 1385, 1962) were varied. An analysis of the results indicates that the existence of the first set of the previously obtained phase shifts is more likely than that of the second. "The authors thank S. N. Sokolov, V. I. Nikanorov, I. By\*stritskiy, and A. M. Rozanova for help with the work, G. S. Revenko, P. F. Pisarev, A. I. Yegorov, V. F. Ustinov, and V. M. Sakovskiy for erection of the apparatus and for help with the experiments, and R. I. Zaplatina, M. Uglirzhova, V. V. Ukleynina, and V. A. Maknimoyna for scanning the films. The authors are also grateful to the photo laboratory staff for developing the many films." Orig. art. has: 2 figures, 19 formulas, and 2 tables.

Cord 2/3

L 10763-65  
ACCESSION NR: AP4046397

ASSOCIATION: Ob'yedinenny'y institut yaderny'kh issledovaniy (Joint  
Institute of Nuclear Research)

SUBMITTED: 03Apr64

ENCL: 00

SUB CODE: NP

NR REF Sov: 008

OTHER: 008

Card 3/3

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CIA-RDP86-00513R001341020016-3"

L 25369-65 EAT(m) IJP(c)

ACCESSION NR: AP5002144

S/0120/64/000/006/0039/0044

AUTHOR: Gromova, I. I.; Legar, F.; Nikanorov, V. I.; Peter, G.; Pisarev, F.

19 B

TITLE: Characteristics of a multilayer spark-discharge chamber with various filling gasses

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1964, 39-44

TOPIC TAGS: spark discharge chamber, multilayer spark chamber

ABSTRACT: The results of an experimental investigation of the characteristics of a 27-electrode spark chamber filled with Ne+0.4% A or He or Ne+20% He are reported. The effects of the clearing field, pulse delay, gas pressure, and gas type upon the efficiency of recording charged particles were studied. It was found that the efficiency vs. pulse-delay curves have no gradually falling-off "tails." The curves for Ne+0.4% A and Ne+20% He drop steeply, which fact is favorable

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L 25389-65

ACCESSION NR: AP5002144

for using these gas mixtures in the chambers operating with high background noise. The storage-time vs. clearing-field curves have a minimum at 0.3--0.4 microsec. An increase in the efficiency and storage time with increasing the clearing-field amplitude is most probably due to metastable states of basic-gas atoms which are formed by the drift energy of initial electrons in the clearing field. The spark chambers can operate efficiently at low gas pressures. The plateau length for the above gases is about 7--8 kv. Orig. art. has: 7 figures.

ASSOCIATION: Ob'yedinennyj institut yadernykh issledovanij (Joint Nuclear Research Institute)

SUBMITTER: JDC/ctb

ENCL. NO.

SUB CODE: NC

NO REF Sov: 003

OTHER: 002

Card 2/2

PETER, G.; PISAREV, A.F.; FAL'BRUKH, K.M.

Spark-type gas-discharge electron-optical converter. Prib. 1  
tekhn. eksp. 8 no.4:128-131 Jl-Ag '63. (MIRA 16:12.

1. Ob'yedinennyj institut yadernykh issledovaniy.

L11260-63EWT(1)/BDS AFFTC/ASD/ESD-3

ACCESSION NO: AP3004905

8/0120/63/000/004/0128/0131

57  
56

AUTHOR: Peter, G.; Fal'drukh, K. M. [Vahlbruch, K. M.]; Pisarev, A. Y.

TITLE: Electron-optical gas-discharge spark light converter

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1963, 128-131

TOPIC TAGS: Light converter, spark light converter, spark-discharge light converter, gas-discharge light converter, electron-optical light converter, charged-particle detector

ABSTRACT: A new type of electron-optical converter for the detection of charged particles which uses a spark discharge in gas is described and its characteristics experimentally studied. The converter consists of a cylindrical container with flat ends. A transparent photocathode is deposited on the inner surface of the front end, and two grids run parallel to the cathode; the first functions as a governing valve and the second as the anode. Electrons emerging from the cathode and drawn toward the positively biased first grid proceed toward the anode and develop a spark discharge if an anode voltage pulse of proper intensity is applied at the proper instant. By varying the bias pressure in the container and the duration of the pulse, the discharge channel can be made so thin that it

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L 11260-63

ACCESSION NR: AP3004905

appears as a light flash point if observed from the anode. The track image of a multiplicity of such particles will appear as a number of luminescent dots on the scintillator screen. One of the models investigated was a plasticglass container with the grids made of 0.1-mm brass sheet with  $30 \times 30$  openings per  $\text{cm}^2$ , and an aluminum plate serving as the photocathode. The three electrodes were 10 mm apart. The container was filled with a mixture of neon with 0.5% argon to a pressure of 750 mm Hg. At the instant of passage of a particle between the cathode and the +100-v governing screen, a 10-kv pulse of  $1.2 \times 10^{-7}$  sec was applied to the anode. Another model investigated was a glass container with the same electrode arrangement and was designed for finding the most advantageous composition and pressure of the filler gas. The lower pressure limits for obtaining thin sparks at a pulse voltage of 3 kv was found to be 60 mm Hg for neon and 5 mm Hg for xenon. Further efforts, directed toward improvement of photocathode sensitivity, were unsuccessful. However, it was established that the light amplification factor can easily be varied within a wide range by manipulation of the anode-pulse amplitude. The resolution time was found to be about 0.1 to  $0.3 \times 10^{-6}$  sec. The main advantages of the design over conventional electron-optical converters, apart from its simplicity, lie in its better resolution time, low background, and flexibility of governing the amplification factor. The main disadvantages are a lower screen

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L 1h260-63

ACCESSION NR: AP3004905

resolution and the inability of the device to render half-tones, which restrict its application to the recording of charged particles and cases where "fineness" of rendering is not important. Orig. art. has: 3 figures.

ASSOCIATION: Ob'yedinennyy institut Yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 15Aug63

DATE ACQ: 28Aug63

ENCL: 00

SUB CODE: PR

NO REP Sov: 006

OTHER: 003

Card 3/3

NIKANOROV, V.I.; PETER, G.; PISAREV, A.F.; POZE, Kh.

Measurement of the spin correlation coefficient for pp-scattering  
at an energy of 660 Mev. Zhur. eksp. i teor. fiz. 42 no.5:  
1209-1211 My '62. (MIRA 15:9)

1. Ob"yedinennyj institut yadernykh issledovaniy.  
(Nuclear spin) (Protons—Scattering)

PISAREV, A.L., kand. tekhn. nauk

Prospects for using magnetic amplifiers in industrial automatic control systems and electric drives. Elektrotehnika 35 no.6:1-4 Je '64. (MIRA 17:8)

KISEL'GG, Z.S.; PISAREV, A.I.

Make better use of available agricultural machinery. Trakt.  
i sel'khozmash. 31 no.6:36-38 Je '61. (MIRA 14:6)

1. Glavnnyy inzh. Odesskogo oblastnogo upravleniya sel'skogo  
khozyaystva (for Kisel'gof). 2. Glavnnyy inzh. Odesskoy  
rayonnoy traktornoy stantsii (for Pisarev).  
(Agricultural machinery)

PISAREV, A.I. [Pysarev, A.I.]

Repairing electric equipment at the Odessa Repair and Supply Station.  
Mekh. sil'. hosp. 12 no. 5:14-15 My '61. (MIRA 14:5)

1. Glavnnyy inzh. Odesskoy remontno-tehnicheskoy stantsii.  
(Electric machinery--Maintenance and repair)

KUPLYAYEV, I.M. Leningrad, B. Tukharskiy ul. 1. 4\*, kv. 10, 1970  
'Gor'kiy, A. Radistov, ul. Kveti 1. 10\*, kv. 10, 1970  
Radistov, d. 4, kv. 1; RISHTIN, A.I. Moscow, 1-102, 1970  
Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo po radiofizike i radiochimii  
GASHANOV, S.N. Moscow, 1-51, 2-y Kolobovskiy per. 8, 1970  
DULY, B.I. Irkutsk, 1, 1-pereulok pereulok, 1. 4\*, kv. 10, 1970  
K.A. (Moskva, Ye-37, 1-pereulok 1-pereulok, 1. 4\*, kv. 10, 1970  
G.M. (Moskva, 1-10, 2-pereulok, 1. 4\* 17, kv. 10; 1970  
Uzhgorod, Zakarpatskaya ob., 1, 1-hosm. 10/lyubnyy, 1. 4\*, kv. 10, 1970  
SITORENKO, A.P. Leningrad, 2. Prusse, 4.15, kv.18, 1970  
Leningrad, ul. Prusse, 4.15, kv.18; 1970, 1. 4. Moscow, 1970  
MILIN, V.F.; PELLUM, I.N.; PELLUM, A.I. Kursk, 1970  
pereulok, d. 4, 1970; 1970, 1. 4. Kursk, 1970  
d. 2, kv. 1; YERIK, M.V. Moscow, 1st floor pr. 38/1, 1. 4\*, kv. 10, 1970  
SYBIL'YENKO, G.P. (Moskva, Leninskii prospekt, 4.14, 1970, 1. 4. Moscow, 1970  
(Leningrad, M-14., ul. Tiparova, 2.1, kv.13; 1970, 1. 4. Smolensk, Smolenskaya ul. 2.4; SKIYATOV, A.Ye. Novocherkassk, 1970  
skoy obl. pos. Aktyabri'skiy, Gvardeyskaya ul. 4.3\*, kv. 10, 1970

discoveries and inventions. from. 1970. 1970. 1970. 1970.

1. Zavod "Amarkabel", Khabarovsk, 1970. 1970. 1970.

VASIL'YEVA, N.P., kand. tekhn. nauk (Moskva); FISAREV, A.L., kand. tekhn. nauk (Moskva)

Contactless devices of electric drive control systems.  
Elektrichestvo no.8:13-17 Ag '63. (MIRA 16:10)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3

DERIM-OGLU, G.N., inzh.; PISAREV, A.L., kand.tekhn.nauk

Series of output-type a.c. magnetic amplifiers for contactless  
control systems. Vest. elektroprom. 34 no.1:26-31 Ja '63.  
(MIRA 16:1)  
(Magnetic amplifiers)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3"

PISAREV, A.L.

621,318,435 : 621,313,332 : 621,316,71

2451. CALCULATION OF THE SATURABLE REACTORS  
FOR A CONTROLLABLE INDUCTION MOTOR DRIVE.

A.L.Pisarev,

Mechanichesko, 1956, No. 5, 10-14. In Russian.

Induction motor drives with saturable reactor control are increasingly used for industrial purposes, since they are simple, reliable and do not require additional energy converters. Furthermore, their control range is wide, rendering them suitable for winding engines, hoisting and conveyor machinery and for the drive of various machines in the paper, printing and other light industries. The existing experimental drives are rated up to 100 kW and have a speed control range of 1:50. The simple engineering method of designing the saturable reactor described in the paper is based on the mechanical and electrical characteristics of the available motor and on a proven type of reactor with 3-limb core. A numerical example illustrates the calculation.

B.F.Kraus

ACC NR: AP6031523

SOURCE CODE: UR/0292/66/000/009/0035/0037

AUTHOR: Birfel'd, A. G. (Engineer); Vasil'yeva, N. P. (Candidate of technical sciences); Pisarev, A. L. (Candidate of technical sciences); Cherdyn'tsev, G. A. (Engineer)

ORG: none

TITLE: Magnetic logic elements and devices in contactless control systems

SOURCE: Elektrotehnika, no. 9, 1966, 35-37

TOPIC TAGS: magnetic circuit, logic circuit, transistorized amplifier, electronic circuit/ELM-400 logic circuit

ABSTRACT: The Kalininskiy Electric Apparatus Factory has begun producing the new ELM-400 series of magnetic logic elements. The plug-in encapsulated modules (55 x 22 x 32 mm) were designed to operate at 400 cps using two-phase power in an environment with an ambient temperature range from -35 to +50 C and relative humidity up to 98%. The line includes: 1) an inverter (ELM-400-IN) which may realize the NOT or OR functions depending on the connections used (its fan-out is 6); 2) a signed repeater (ELM-400-P) which shifts the signal by one half period but leaves it logically intact (fan-out is 6); 3) an input transformer coupling circuit (ELM-400-VT); and 4) an input inverter coupling circuit (ELM-400-VIN). The ELM-400 line complements the LT general industrial application series. A special 1-kw power inverter feeds the 400-cps contactless logic elements from a 50-cps power source. The factory also

Card 1/2

ACC NR: AP6031523

produces 50-cps magnetic amplifiers capable of delivering up to 550 va to actuating mechanisms and 400-cps amplifiers with maximum output power of 90 w. Transistorized power amplifiers (90 w maximum) are also manufactured, as are thyristor circuits which may control high-power systems such as 3-phase 10 kw/380 v induction motors.  
Orig. art. has: 6 figures. [WA-81]

SUB CODE: 09/ SUBM DATE: none

Card 2/2

ACC NR: AP6031523

SOURCE CODE: UR/0292/66/000/009/0035/0037

AUTHOR: Birfel'd, A. G. (Engineer); Vasil'eva, N. P. (Candidate of technical sciences); Pisarev, A. I. (Candidate of technical sciences); Cherdyn'tsev, G. A. (Engineer)

ORG: none

TITLE: Magnetic logic elements and devices in contactless control systems

SOURCE: Elektrotehnika, no. 9, 1966, 35-37

TOPIC TAGS: magnetic circuit, logic circuit, transistorized amplifier, electronic circuit/ELM-400 logic circuit

ABSTRACT: The Kalinin'skiy Electric Apparatus Factory has begun producing the new ELM-400 series of magnetic logic elements. The plug-in encapsulated modules (55 x 22 x 32 mm) were designed to operate at 400 cps using two-phase power in an environment with an ambient temperature range from -35 to +50 C and relative humidity up to 98%. The line includes: 1) an inverter (ELM-400-IN) which may realize the NOT or OR functions depending on the connections used (its fan-out is 6); 2) a signed repeater (ELM-400-P) which shifts the signal by one half period but leaves it logically intact (fan-out is 6); 3) an input transformer coupling circuit (ELM-400-VT) and 4) an input inverter coupling circuit (ELM-400-VIN). The ELM-400 line complements the LT general industrial application series. A special 1-kw power inverter feeds the 400-cps contactless logic elements from a 50-cps power source. The factory also

Card 1/2

ACC NR: AP6031523

produces 50-cps magnetic amplifiers capable of delivering up to 550 va to actuating mechanisms and 400-cps amplifiers with maximum output power of 90 w. Transistorized power amplifiers (90 w maximum) are also manufactured, as are thyristor circuits which may control high-power systems such as 3-phase 10 kw/380 v induction motors. Orig. art. has: 6 figures. [WA-81]

SUB CODE: 09/ SUBM DATE: none

Card 2/2

KONSTANTINOV, M.; PISAREV, A.M.

Efficiency of combined mechanical systems. Godishnik mat selen  
8:69-72 '60. (publ. '61).

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3

KONSTANTINOV, M.S.; PISAREV, A.M.

An algebraic method for the kinematic analysis and synthesis  
of toothed planetary gears. Godishnik mat elekt 8:33-40  
'60. (publ. '61).

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3"

ATANASOV, A.I.; PISAREV, A.M.

The draw gear of a homogeneous train, and its stress at starting. Godishnik mash elekt 10 no.3:239-250 '61 (publ.'62).

IVANOV, Iv.D.; PISAREV, Al.M.; RAINOV, N.D.

Device for the replacement of old cables in mining hoisting  
machines. Godishnik mash elekt 10 no.3:258-272 '61 (publ.'62).

PISAREV, A.M.

Relative periodic movements of a mathematical elastic pendulum in  
a uniformly revolving vertical plane. Godishnik mash elekt 10  
no.1:49-58 '61 (pibl. '62.).

PISAREV, A. M.

Existence and characteristics of periodic movements of a heavy elastic bar with concentrated mass at one end. Godis-nik mash elekt 12 no. 1:14-30 '62 [publ. '63].

BRADISTILOV, G.D.; BOIADZHEV, G.N.; PISAREV, A. M.

Characteristics of periodic movements of a system of n consecutively connected mathematical pendulums with elastic threads. Godishnik mash elektr 12 no. 1:9-18 '62. [publ. '63].

NEDIALKOV, I.P.; PISAREV, A.M.; CHESHANKOV, B.I.

Differential equations determining the form of a shaft with minimum weight in some given critical revolutions. Godishnik mash elekt 9:57-60 '61. [publ. '62]

1. Predstavena ot dots. Iv. Kis'ov, rukovoditel na kat. "Tekhnicheska mekhanika".

BRADISTILOV, G.D.; BOIADZHIEV, G.N.; PISAREV, A.M.

Existence of periodic motions of n-successively connected mathematical pendulums with elastic strings. Godishnik mash elekt 9:1-10 '61.  
[publ. '62]

PISAREV, A.M.

The total of elements of a square matrix, and its interpretation  
in mechanics. Godishnik mash elekt 7 no.1:25-32 '60. (publ. '61)

KONSTANTINOV, M.S.; PISAREV, A.M.; POPOV, N.B.

Vibration in the Mercedes-Benz truck with the Blumchart trailer.  
Godishnik mash elekt 7 no.1:161-177 '60. (publ. '61)

BRADISTILOV, G.D.; KONSTANTINOV, M.S.; PISAREV, A.M.

Existence of periodic movements of the mathematical pendulum with  
elastic thread. Godishnik mash elekt 8 no.1:25-28 '60.'publ. '61)

TOPENCHAROV, V.V.; PISAREV, A.M.

Problem of the simultaneous reduction of three quadratic forms  
to the sum of the squares, and its application in mechanics.  
Godishnik mash elekt 8 no.1:47-55 '60. (publ. '61)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3

PISAREV, A.V., Inzh.

Method for designing current transformers with given error. Elektrotehnika  
36 no.7:7-10 Jl '65. (MIRA 18:7)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3"

PISAREV, A.V.

✓ 988. Spectrographic analysis of tin. N. A. Riv-  
kina, V. D. Shcherba, A. V. Kurnikov, R. P. Agafonova,  
I. A. Gerasimova and M. P. Lebedeva (Nov  
Sibirsk Inst. Railway Transport Engineers and New  
Technics (in Russian). Izv. Akad. Nauk SSSR, 1958, 81 (8),  
1081-1083. Spectrographic determinations of Pb,  
Cu, Bi, Fe, Si and As in tin, with tin and tin-alloy  
electrodes, are described. G. S. SMITH

PM

USSR/Cultivated Plants. Potatoes. Vegetables. Melons.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20308.

Author : B.A. Piankov  
Inst : The Scientific Research Institute for Potato Raising.  
Title : Using Potash Fertilizers on Potatoes in the Flood Lands of  
the Moscow River. (O primenenii pod kartofel' kaliynykh  
udobreniy v usloviyakh poamy reki Moskvy).

Orig Pub: Udobreniya i urozhay, 1957, No 5, 37-41.

Abstract: According to the data of the Scientific Research Institute for Potato Raising, an increased dosage of K<sub>2</sub>O from 60 to 150 kilograms per hectare on a ground of NP in the flood-land soils containing K<sub>2</sub>O, according to Peve, in amounts of 6.7 - 7.2 milligrams per 100 grams of soil, correspondingly increased the additional yield of tubers from 3 to 10 tons per hectare. Doses of 90 kilograms per hectare

Card : 1/2

PISAREV, Boris Anatol'yevich, kand. sel'khoz. nauk; VASIL'YEVA, Ye.,  
red.; KUZNETSOVÁ, A., tekhn. red.

[New developments in potato growing] Novinki v kartofele-  
vodstve. Moskva, Mosk. rabochii, 1961. 131 p.  
(MIRA 15:2)  
(Potatoes)

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M

Abs Jour : Ref Zhur Biol., № 12, 1958, 53611  
Author : Pisarev, B.A.  
Inst : Moscow Experimental Research Irrigational Station  
Title : The Economic Effectiveness of Potassium Fertilizers in Flood-Lands.  
Orig Pub : Zemledeliye, 1957, No 5, 94-95  
  
Abstract : In experiments made by the Moscow Experimental Research Irrigational Station, potassium fertilizers on the central flood lands of the Moscow River considerably increased the potato yield and lowered its cost. Fractional application of K<sub>90</sub> under the tilled soil and in the pocket produced a greater effect than by broadcasting the same dose. Potash-magnesium is more effective in local placement than potassium chloride. The highest yield

Card 1/2

- 37 -

PISAREV, B.A., kand. sel'khoz. nauk; VASIL'YEVA, Ye., red.; SHLYK, M.,  
tekhn. red.

[Potatoes] Kartofel'. Moskva, Mosk. rabochii, 1961. 57 p.  
(MIRA 14:7)  
(Potatoes)

PISAREV, B. A., Cand Agr Sci -- (diss) "Effect~~s~~ of mineral fertilizers upon the growth and production of potatoes under conditions of Moscow River bottomlands." Mos, 1957. 14 pp (All-Union Sci Res Inst of Fertilizers and Agricultural Soil Science), 120 copies (KL, 2-58, 114) \*

-45-

PISAREV, B.A.

Ecological effectiveness of certain organic fertilizers on flax  
Kemledelie no. 204-95 May 1957. (MLRA No. 2)  
(Fertilizers and manures) (Potassium)

PISAREV, Boris Anatol'yevich, kand. sel'khoz. nauk; VASIL'YEVA, Ye.,  
red.; POKHLEBKINA, M., tekhn. red.

[Early potatoes] Rannii kartofel'. Moskva, Mosk. rabochii,  
1963. 60 p. (MIRA 16:7)  
(Potatoes)

PISAREV, B.I., kandidat meditsinskikh nauk.

Investigation of morbidity among urban population. Trudy IZOMI  
14:185-194 '53.  
(MLRA 7:9)  
(Diseases--Causes and theories of causation)

PISAREV, B.P., kandidat meditsinskikh nauk.

From the history of sanitation in Russia. Sanitary inspection  
of factories and plants of Moscow Government. Trudy NSGMI 14:  
207-210 '53. (MLRA 7:9)

(Moscow Province--Industrial hygiene--History) (Industrial  
hygiene--History--Moscow Province)

KARAYEV, Roman Grigor'yevich; LARIKOV, Leonid Semenovich; PISAREV,  
B.P., red.; GITSHTERN, A.D., tekhnred.

[Health resorts of the Ukraine; an aid to selection of patients  
for health resorts] Kurorty Ukrayny; posobie po otboru bol'nykh  
na kurorty. Kiev, Gos.med.izd-vo USSR, 1959. 189 p.

(MIRA 12:9)

(UKRAINE--HEALTH RESORTS, WATERING PLACES, ETC.)

KURASHOV, Sergey Vladimirovich; ALEKSANDROV, O.A., red.; PISAREV, B.P., red.;  
POGOSKINA, M.V., tekhn. red.

[Organization of the control of cardiovascular diseases] Organiza-  
tsiya bor'by s serdechno-sosudistymi zabolevaniiami. Moskva, 1960.  
107 p. (MIRA 14:7)

(CARDIOVASCULAR SYSTEM—DISEASES)

VERB, I.M.; PAVLOVA, T.A.; PISAREV, B.P., red.; ZAK, A.L., tekhn.  
red.

[Clothing and linens for therapeutic and prophylactic  
institutions] Odezhda i bel'e dla lechebno-profilakticheskikh  
uchrezhdenii. Moskva, Medgiz, 1962. 382 p. (MIRA 16:1)  
(HOSPITALS--EQUIPMENT AND SUPPLIES)

RUSHKOVSKIY, T.V., agronom; PISAROV, B.V.

Basic tillage in steppe districts. Zemledelie 6 no.2:85 '58.  
(Tillage) (MIRA 11r3)

MISAREV, D. I.

"Experimental work in the Field of Aviation Neurology and problems of Prophylaxis." Cand Med Sci, second Moscow State Medical Inst imni I. I. Meitner, Moscow, 1959. (KL, No 14, Apr 55)

SO: Sum. No. 704, 2 Nov 59 - Survey of Scientific and Technical Information Defended at USSR Higher Educational Institutions (16).

PISAREV, D.I., kand.med.nauk, zasluzhennyj vrach RSFSR.

Ethics and the thinking of the Soviet medical worker. Med.  
sestra 22 no.9:3-7 8'63. (MIRA 16:10)  
(MEDICAL ETHICS)

PISAREV, Dmitriy Il'ich, kand. med. nauk, zasl. vrach RSFSR;  
ARKHANGEL'SKIY, G.V., red.; CHULKOV, I.F., tekhn. red.;

[Ethics and reasoning of a Soviet physician] Etika i myshlenie sovetskogo vracha. Moskva, Medgiz, 1963. 86 p.  
(MIRA 16:5)

(MEDICAL ETHICS)

ПРИКАЗЫ УДОВОЛСТВОВАНО

BANKUZOV, A., gvardii general-major; BOLDYREV, N., polkovnik; PORTYANKO, D.,  
polkovnik; KORMIL'TSEV, I., polkovnik; KUZNETSOV, A., polkovnik;  
VOLYKHIN, A., polkovnik; SHVIDCHENKO, K., polkovnik; PISAREV, G.,  
polkovnik; NEYELOV, N., polkovnik; VERTELA, N., gvardii polkovnik;  
MURATOVA, A., polkovnik; NIKOLAYEV, A., polkovnik

We discuss projects of new Army regulations. Voen. vest. 38 no.7:2-9  
Jl '58. (MIRA 11:6)

(Russia--Army--Regulations)

PISAREV, O.E.

Concern for the maintenance of apartment houses. Gor.khoz.Mosk.  
25 no.8:34-35 Ag '51. (MIRA 10:1)

1. Upravlyayushchiy domami 1-go domoupravleniya Shcherbakovskogo  
rayona.  
(Moscow--Apartment houses--Management)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3

FISAREV, G. N.

"Care for the economy of the housing fund," The Municipal Economy of Moscow, 1951.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3"

PISAREV, I.

Methods for the study of the standard of living of Soviet workers.  
Sots. trud no.2:20-30 P '58. (MIRA 11:1)  
(Cost and standard of living)

LEBEDEV, L.M.; PISAREV, G.V.

Machines and instruments for testing polymers. Priborostroenie  
no.8:13-16 Ag '62.  
(Polymers--Testing)

PISAREV, I.

Two social systems and two laws of population ecology.  
Sots.trud. 7 no.6:24-32 Je '62. (MIRA 16:2)  
(Demography)

PISAREV, I.

An important and timely beginning. Vop.ekon. no.6:147-153 Je '56.  
(MLRA 9:8)

(Statistics--Periodicals)

AUTHOR: Pisarev, I.

SOV-2-58-8-7/12

TITLE: The Correlation of Mean Values (O sootnoshenii srednikh  
velichin)

PERIODICAL: Vestnik statistiki, 1958, Nr 8, pp 59 - 65 (USSR)

ABSTRACT: In economic computations, not only individual data but  
also general mean characteristics are sometimes used. For  
obtaining one type of data different means may be used.  
This makes evident the practical importance of the corre-  
lation of means and of selecting the correct type of mean.  
In statistics, and especially in mathematical statistics,  
the relative significance of various kinds of mean values  
establishing the order of growth (or diminution) of means

Card 1/2

PISAREV, I.

Improve the decentralized system of payments for deductions from  
profit. Fin.SSSR. 23 no.5:50-55 My '62. (MIRA 15:5)  
(Tax accounting)

PISAREV, I.

U...lization of public funds in mass consumption. Sots.trud 4  
no.11:57-67 N '59. (MIRA 13:4)  
(Consumption (Economics))

PISAREV, G.; MODZELEVSKIY, A.

Promoting automation. Za rul. 17 no.11:4-5 N '59. (MIA 13:4)

1. Zamestitel' nachal'nika mototsikletnogo proizvodstva Izhevskogo mashinostroitel'nogo zavoda (for Pisarev). 2. Nachal'nik konstruktorskogo byuro Izhevskogo mashinostroitel'nogo zavoda (for Modzelevskiy).

(Izhevsk--Motorcycle industry)  
(Automation)

PISAREV, I.; KAMINER, L.; KARAPETYAN, A.

Increase of real wages for workers and employees in the U.S.S.R.  
Sots.trud no.12:17-23 D '58. (MIRA 13:4)  
(Cost and standard of living)

PISAREV, I.

"The National consumption under socialism" by F.S.Mstislavskii. Re-viewed by I.Pisarev. Vop. ekon. no.2:137-139 F '62. (MIRA 15:1)  
(Consumption (Economics)) (Mstislavskii, P.S.)

FISCHER, I.

Population - Statistics

Population statistics handbook. Moscow, 1951, 1952.

Monthly List of Russian Acquisitions, Library of Congress  
April 1952. (A. 1952).

PISAREV, I.

Statistics

Subject and method of the science of statistics. Vop. ekon. no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, ~~October 1952~~ 1977, Uncl.

1. PISAREV, I.
2. USSR (600)
4. Statistics
7. Erroneous articles of comrades Chermenskiy, Mikhailov, and Sobol', Vest. stat., No. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April, 1952, Unci.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3

SAVANNAH, S.C., U.S.A.; 1940's.

use of "Savannah" for the name of Savannah River  
Army Corp. No. 335-14-163.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001341020016-3"

L 26601-65 EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EPR/T/EWP(t)/EWP(b) Pr-l/Ps-l/Pu-l IJP(c)  
ACCESSION NR: AT5003398 JD/JO 6/2539/63/000/043/0095/0104

35  
34  
B7/

AUTHOR: Savel'yeva, V. I.; Minayev, V. A.; Pisarev, I. D.

TITLE: Use of Moscow clay for the adsorption of radioactive elements

SOURCE: Moscow. Khimiko-tehnologicheskiy institut. Trudy, no. 43, 1963. Issledovaniya v oblasti khimii i tekhnologii radioaktivnykh i redkikh elementov (Research in the field of the chemistry and technology of radioactive and rare elements), 95-104

TOPIC TAGS: radioactive waste, clay adsorbent, metal ion adsorption, aluminosilicate adsorbent, adsorptive capacity, radioactive isotope, fallout adsorption

ABSTRACT: A study was made of the adsorption of radioactive isotopes on Moscow clay, closely related to the loams used in the manufacture of bricks and having the following chemical composition: SiO<sub>2</sub>, 73.2%; Al<sub>2</sub>O<sub>3</sub>, 14.4%; Fe<sub>2</sub>O<sub>3</sub>, 4.7%; CaO + MgO, 2.2%; H<sub>2</sub>O, 2.0%; ignition loss, 3.4%. It was found that the adsorptive capacity with respect to the Ca<sup>2+</sup> ion was 0.95 meq/g under static conditions. The effect of various factors (pH, NaNO<sub>3</sub> and Ca(NO<sub>3</sub>)<sub>2</sub> concentration) on the adsorption of yttrium-91, cesium-134, strontium-89, ruthenium-106, and zirconium-95 was studied. The adsorption was also studied under dynamic conditions; packing made

Card 1/2

L 26601-65

ACCESSION NR: AT5003398

from the clay calcined at approx. 550C was prepared for this purpose. The use of clay as an adsorbent has the advantage that the radioactive elements can be fixed on it by firing at 1100-1200C. During the firing, the elimination of the radioactive elements can be fixed on it by firing at 1100-1200C. During the firing, the elimination of the radioactive elements in the form of aerosols is very slight when the adsorption is done from solutions of low salt content (on the order of 5 g/liter), but increases somewhat with increasing salt content. Desorption was carried out by using water or various acid or basic solutions. Orig. art. has: 9 figures and 4 tables.

ASSOCIATION: Khimiko-tehnologicheskiy institut, Moscow (Chemical engineering institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC, NP

NO REP Sov: 003

OTHER: 012

Card 2/2